

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Previously Presented) A data processing apparatus comprising:

a detector for detecting completion of preparations for outputting first data read from a data recording medium which stores said first data and second data corresponding to said first data and having a data amount smaller than that of said first data, wherein said first data are made up of a continuous collection of clips, said first data being reproduced on a clip by clip basis;

a position calculator for calculating a current clip read ending position and a next clip read starting position, and determining whether the current clip remaining read duration is less than or equal to the difference between the current clip remaining reproduction duration and a next clip reproduction preparation duration;

a selector for selectively outputting said second data read from said data recording medium until the completion of said preparations for outputting said first data is detected, said selector further outputting selectively said first data once the completion of said preparations for outputting said first data is detected; and

a ready flag that denotes a status of the preparations based upon the determination of the position calculator.

2. (Previously Presented) A data processing apparatus according to claim 1, further comprising:

a first controller for controlling reproduction of said first data; and

a second controller for controlling reproduction of said second data;

wherein said first controller controls the reproduction of said first data in response to the reproduction of said second data controlled by said second controller.

3. (Original) A data processing apparatus according to claim 1, wherein said first data and said second data corresponding to said first data are stored intermittently on said data recording medium.

4. (Original) A data processing apparatus according to claim 1, wherein said first data are video data and said second data are video data obtained by lowering resolution of the video data constituting said first data.

5. (Original) A data processing apparatus according to claim 4, further comprising a resizer for resizing the video data constituting said second data into the same size as that of said first data.

6. (Original) A data processing apparatus according to claim 1, further comprising a decoder for decoding said first data furnished as encoded data;

wherein said detector detects completion of preparations for outputting results of the decoding performed by said decoder.

7. (Original) A data processing apparatus according to claim 1, further comprising a reader for reading said first data and said second data from said data recording medium.

8. (Withdrawn) A data processing apparatus according to claim 1, further comprising a plurality of readers for reading said first data and said second data from said data recording medium.

9. (Previously Presented) A data processing apparatus according to claim 7, wherein said reader stops reading of the current clip from said data recording medium in said current clip read ending position and starts the reading of the next clip from said next clip read starting position.

10. (Withdrawn) A data processing apparatus according to claim 9, wherein said position calculator includes: a duration calculator for calculating a current clip remaining reproduction duration, a next clip reproduction preparation duration, and a current clip remaining read duration, said current clip remaining reproduction duration being a duration period during which the reproduction of what remains of said current clip lasts, said next clip reproduction preparation duration being a duration period required to complete preparations for reproducing said next clip, said current clip remaining read duration being a duration period required to read what remains of said current clip from said data recording medium; an ending position calculator for calculating said current clip read ending position based on said current clip remaining

reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration; and a starting position calculator for calculating said next clip read starting position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration.

11. (Previously Presented) A data processing method comprising the steps of:
detecting completion of preparations for outputting first data read from a data recording medium which stores said first data and second data corresponding to said first data and having a data amount smaller than that of said first data, wherein said first data are made up of a continuous collection of clips, said first data being reproduced on a clip by clip basis;
calculating a current clip read ending position and a next clip read starting position;
determining whether the current clip remaining read duration is less than or equal to the difference between the current clip remaining reproduction duration and a next clip reproduction preparation duration;
outputting selectively said second data read from said data recording medium until the completion of said preparations for outputting said first data is detected, said outputting step further outputting selectively said first data once the completion of said preparations for outputting said first data is detected; and
utilizing a ready flag to denote a status of the preparations based upon the determining step.

12. (Previously Presented) A data processing method according to claim 11, further comprising the steps of:

firstly controlling reproduction of said first data; and
secondly controlling reproduction of said second data;
wherein said first controlling step controls the reproduction of said first data in response to the reproduction of said second data controlled in said second controlling step.

13. (Original) A data processing method according to claim 11, wherein said first data and said second data corresponding to said first data are stored intermittently on said data recording medium.

14. (Original) A data processing method according to claim 11, wherein said first data are video data and said second data are video data obtained by lowering resolution of the video data constituting said first data.

15. (Original) A data processing method according to claim 14, further comprising the step of resizing the video data constituting said second data into the same size as that of said first data.

16. (Original) A data processing method according to claim 11, further comprising the step of decoding said first data furnished as encoded data;
wherein said detecting step detects completion of preparations for outputting results of the decoding performed in said decoding step.

17. (Original) A data processing method according to claim 11, further comprising the step of reading said first data and said second data from said data recording medium.

18. (Withdrawn) A data processing method according to claim 11, further comprising a plurality of steps of reading said first data and said second data from said data recording medium.

19. (Previously Presented) A data processing method according to claim 17, and wherein said reader stops reading of the current clip from said data recording medium in said current clip read ending position and starts the reading of the next clip from said next clip read starting position.

20. (Withdrawn) A data processing method according to claim 19, further comprising the steps of: calculating a current clip remaining reproduction duration, a next clip reproduction preparation duration, and a current clip remaining read duration, said current clip remaining reproduction duration being a duration period during which the reproduction of what remains of said current clip lasts, said next clip reproduction preparation duration being a duration period required to complete preparations for reproducing said next clip, said current clip remaining read duration being a duration period required to read what remains of said current clip from said data recording medium; calculating said current clip read ending position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration; and calculating said next clip read

starting position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration.

21. (Currently Amended) A computer-readable storage medium storing a computer program for causing a computer to execute a data processing method, said data processing method comprising the steps of:

detecting completion of preparations for outputting first data read from a data recording medium which stores said first data and second data corresponding to said first data and having a data amount smaller than that of said first data, wherein said first data are made up of a continuous collection of clips, said first data being reproduced on a clip by clip basis;

calculating a current clip read ending position and a next clip read starting position;

determining whether the current clip remaining read duration is less than or equal to the difference between the current clip remaining reproduction duration and a next clip reproduction preparation duration; and

outputting selectively said second data read from said data recording medium until the completion of said preparations for outputting said first data is detected,

wherein said outputting step further comprises: outputting selectively said first data once the completion of said preparations for outputting said first data is detected,

utilizing a ready flag to denote a status of the preparations based upon the determining step.

22. (Currently Amended) The computer-readable storage medium according to claim 21, wherein said data processing method further comprises the steps of:

firstly controlling reproduction of said first data; and
secondly controlling reproduction of said second data;
wherein said first controlling step controls the reproduction of said first data in response to the reproduction of said second data controlled in said second controlling step.

23. (Currently Amended) The computer-readable storage medium according to claim 21, wherein said first data and said second data corresponding to said first data are stored intermittently on said data recording medium.

24. (Currently Amended) The computer-readable medium according to claim 21, wherein said first data are video data and said second data are video data obtained by lowering resolution of the video data constituting said first data.

25. (Currently Amended) The computer-readable storage medium according to claim 24, wherein said data processing method further comprises the step of resizing the video data constituting said second data into the same size as that of said first data.

26. (Currently Amended) The computer-readable storage medium according to claim 21, wherein said data processing method further comprises the step of decoding said first data furnished as encoded data; and wherein said detecting step detects completion of preparations for outputting results of the decoding performed in said decoding step.

27. (Currently Amended) The computer-readable storage medium according to claim 21, wherein said data processing method further comprises the step of reading said first data and said second data from said data recording medium.

28. (Withdrawn) A program according to claim 21, wherein said data processing method further comprises a plurality of steps of reading said first data and said second data from said data recording medium.

29. (Currently Amended) The computer-readable storage medium according to claim 27, wherein said reader stops reading of the current clip from said data recording medium in said current clip read ending position and starts the reading of the next clip from said next clip read starting position.

30. (Withdrawn) A program according to claim 29, wherein said data processing method further comprises the steps of: calculating a current clip remaining reproduction duration, a next clip reproduction preparation duration, and a current clip remaining read duration, said current clip remaining reproduction duration being a duration period during which the reproduction of what remains of said current clip lasts, said next clip reproduction preparation duration being a duration period required to complete preparations for reproducing said next clip, said current clip remaining read duration being a duration period required to read what remains of said current clip from said data recording medium; calculating said current clip read ending position based on said current clip remaining reproduction duration, said next clip reproduction preparation duration, and said current clip remaining read duration; and calculating

said next clip read starting position based on said current clip remaining reproduction duration,
said next clip reproduction preparation duration, and said current clip remaining read duration.